

REMARKSDrawing

The specification is amended to mention the reference numerals as one of ordinary skill would understand the depiction in the drawing. Drawing correction is therefore not required.

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Specification

In response to the objections to the drawing, obvious erroneous reference numerals in the specification are corrected. Element 104, shown variously at positions "2", "3" and "4", clearly is a pin connected by an arm 103 which is part of the slider 102, and is unrelated to the mains cord 12 shown in Figs. 3-6. Hooked pin 122 is clearly shown in Fig. 2, while it and spring 123 are shown in Fig. 3.

An obvious word error is also corrected.

Claim indefiniteness

15 In response to the objection correctly raised in Paper No. 8, claim 22 is amended to clarify that "the module (9)" (line 21 on page 6 of this amendment) is the switching module referred to in the first line of claim 22 and claims 23-27 dependent thereon. Applicants regret confusion occurring when portions of certain claims were copied from the application as filed.

Applicants respectfully request reconsideration and withdrawal of the rejection based on the "means for actuating the speed switching means (60)". Applicants note that reference to the means 60 first appears on line 28 of page 7, with respect to the circuit diagram shown in Fig. 10. The means 60 is shown as the fixed contacts (contact lugs 93-96) and movable contacts (mating contacts 112-115 and contact links 108, 109) of what clearly is a multi-pole multi-position switch. These contacts are described at lines 3-16 of page 9. Accordingly it is quite proper that claim 22 includes the means 60, and means for actuating (moving) the switch contacts. Those of ordinary skill will recognize that this means for actuating is the mechanical structure (e.g., slider 102 and its associated parts including the pin 104) which interconnects the movable contacts and provides the means for moving the contacts in response to mechanical input (e.g., as provided by engagement by pin 58 shown in Fig. 1, and described at lines 24-26, page 5). The slider 102 is clearly part of first module 9. Thus the slider pin 104 receives "a first mechanical input" from the pin which is

associated with "actuating means 19" of the second module 44.

Accordingly applicants submit that they clearly had "possession of the claimed invention" because they described that a user operates first module 44 to cause what is claimed as "a first mechanical input" to the slider 102 of module 9.

5 Claim 25 is amended to correct an inadvertent word processing error. It may be noted that claim 22 corresponds generally in scope with original claim 7.

Art rejection - US 3,533,600 (Gerson)

To the extent that the rejection over Gerson might be maintained against claims 13 and 22,  
10 reconsideration is requested because nothing in Gerson teaches nor at all suggests a module as  
claimed herein. In fact, Gerson clearly teaches away from the claimed invention.

Applicants submit that patentable weight must be given to the word module, and the clear  
meaning it has in this application as shown by the specification. As a result applicants' attorney  
believes that the admitted prior art, found on pages 1 and 2 of the application, is more material than  
15 the Gerson patent cited for the instant rejection.

A critical element of the claimed invention is that the speed switching means (60), the start  
means (61) and the two mains terminals (10, 11) are connected electrically and mechanically to  
form a module (9). This module is installed physically as one piece, such as module 9 shown in  
Figs. 1 and 3, and the component parts from which it is assembled may be such as shown in the  
20 exploded view Fig. 2. It is clear from the comparison of the prior art at line 25 of page 1 through  
line 12 of page 2, with the invention at lines 16-27 of page 2 and its advantages at line 28 of page 2  
through line 18 of page 3, that "module" as used herein refers to a detachable unit with a specific  
function (see, e.g., Webster's New World Dictionary). More particularly, the switching means and  
start means and mains terminals are connected mechanically to form a module on which their  
25 electrical interconnections are realized. It is inherent that this mechanical connection is made  
before the module is installed in the apparatus. Any other interpretation does violence to the  
teachings of the specification which supports the claims. This is different from, and not obvious  
over, the prior art in which the switches and mains terminals are separate units or modules.

Gerson is concerned with a substantially different apparatus, and features electrically  
30 interconnected parts which clearly will be mounted to the housing serially in whatever order is most

convenient, first one switch, and then the other, while the connector may be mounted to the housing first, middle or last. Further, because of the relationship between the functions of the Gerson controls and the user holding the double-ended appliance, integration of the switches and the claimed electrical connections on one reasonably compact module which will fit within such a dual purpose machine would be impossible, and therefore is not obvious over Gerson.

The mechanical and electrical interconnections of Gerson are made more comprehensible by understanding the dual functions of the apparatus. Ejector button 56 (col. 3, lines 32-56) and switch 104 at one end are involved with the mixer blade ejection and operation. At the other end of the motor and housing, switch 120 energizes the same motor to drive cutting blade actuators extending from that other end, via a separate transmission. As will be made clear from the detailed analysis below, one of ordinary skill will understand that a user holds the motor housing with the thumb toward switch handle 106 when cutting with reciprocating blades 75, and turns the appliance around to hold the housing with the thumb adjacent the switch handle 104 when mixing or beating with rotary tools inserted into actuators 38.

Further, the paragraph at lines 31-46 describes the desirability of mechanical interlocks which prevent continuous operation when no tools are inserted and also when cutting blades are engaged with the actuators 74. Thus no one of ordinary skill would describe Gerson as teaching "start means ... for starting the motor ... at the higher speed". To the contrary, Gerson teaches and suggests only an apparatus with a cutting function switch (high speed only) and with a beating/mixing speed switch, these switches being mounted to the housing independently of each other. Further, if one switch failed, it would easily be replaced without need to replace the other switch. To the contrary, if one of the switches of the instant invention failed, it is simple to replace the module 9.

Responding to specific allegations in Paper No. 8, applicants submit that elements 98, 108, 25 110, 119, 120 and 125, described as teaching a switching module, are not and cannot reasonably be made parts of one module.

Element 98 is a line cord connector located to one side of the motor commutator, far removed from the momentary contact switch 106 (col. 4, lines 52-54) and the speed control switch 104 (col. 4, lines 50-52) and its handle 116 (col. 4, lines 69-70). One of ordinary skill would conclude that this connector is mounted mechanically to the housing 12. It is described as being

"positioned relative to the housing 12" (col. 4, lines 31-37). Thus the connector 98 is not connected mechanically either to the switch which includes the element 110, or to the switch which includes elements 119 and 120, and does not form a module with either or both of them.

Element 108 is the wafer or contact assembly of wafer switch 104 (col. 4, lines 55-58).

5 Terminal 110 (shown in Fig. 4 as being part of wafer switch 104) is connected by a wire 125 to one of the fixed contacts 119 and to movable contact 120, while the other of the fixed contacts 119 and the movable contact 120 is connected to the motor high speed winding (col. 5, lines 18-23). Switch 104 with its various parts is itself a module which would probably be assembled, and wires 20 and 125 connected to it, before mounting in the housing 12. The speed 10 control switch has a plurality of contacts respectively connected by respective wires 20 to taps on the motor field winding (col. 2, lines 66-69). One of ordinary skill would conclude that this speed control switch is separately mounted mechanically to the housing 12.

Element 120 is a momentary contact switch (col. 5, lines 8-12) having an actuating button 106 mechanically connected to movable contact 120, and fixed contact 119. The switch 120 is 15 fastened to the housing 12 at a location far from both the wafer switch and the line cord connector. This switch is preferably connected to the high speed winding of the motor, and is used when the apparatus is used for cutting or slicing (col. 1, lines 65-67; col. 4, lines 46-49). Switch 120 with its various parts is itself a module which would probably be assembled, and wires 125 connected to it, before mounting. One of ordinary skill would conclude that this cutting/slicing switch is separately 20 mounted mechanically to the housing 12. An interlock is preferably provided to prevent continuous operation via switch 104 when the apparatus is being used for cutting or slicing (col. 1, lines 68-72).

Accordingly no one of ordinary skill would call the combination of switch 104 and switch 120 and connector 98, in the beater/knife housing, a module or parts of a module. Claims 13 and 25 22 are therefore not anticipated by Gerson.

Claims 14, 16, 17 and 24 are patentable over Gerson for all the reasons given with respect to the independent claims.

Regarding claims 15 and 23, nothing in Gerson suggests that there be a switching module, and even less that such a module have in addition an interference suppression means physically 30 mounted on and electrically connected to that module.

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Regarding claim 18, nothing in Gerson suggests that there be a switching module, and even less that such a module have leads fixedly connected to, and therefore being part of, the module so that the electrical installation merely requires attaching the respective ends of those wires to the motor terminals.

5        Regarding claims 25-27, applicants believe it is clear that they were intended to depend from claim 22 or, a claim dependent therefrom. Nothing in Gerson suggests, nor is alleged to suggest, a module having a supporting member and contact strips and other parts extending parallel to, or movable with respect to that member parallel to a strip direction, as claimed herein. Accordingly claim 25 is patentable.

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CONCLUSION

All formal matters are complied with, and the claims (with minor formality amendments) are shown to be patentable over the cited art. Early favorable action on the merits of the application is respectfully requested.

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Respectfully submitted,

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